TS-PIC-20901106S September 2009

**Research and Development** 

**ŞEPA** 

HISTORICAL AERIAL PHOTOGRAPHIC
ANALYSIS, LAND USE/LAND COVER ANALYSIS,
SITE DISCOVERY INVENTORY ANALYSIS,
WETLANDS/DRAINAGE ANALYSIS, AND
FRACTURE TRACE ANALYSIS OF
OLIN CHEMICAL SUPERFUND SITE
Wilmington, Massachusetts
Volume 2

**EPA Region 1** 





### HISTORICAL AERIAL PHOTOGRAPHIC ANALYSIS, LAND USE/LAND COVER ANALYSIS, SITE DISCOVERY INVENTORY ANALYSIS, WETLANDS/DRAINAGE ANALYSIS, AND FRACTURE TRACE ANALYSIS OF OLIN CHEMICAL SUPERFUND SITE

## Wilmington, Massachusetts Volume 2

by

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Contract No. EP-D-05-088

**Work Assignment Manager** 

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## NO

# Over-lay

Attached



FIGURE 1. SITE LOCATION MAP, MASSACHUSETTS (USGS, 1972). APPROXIMATE SCALE 1:2,500,000.

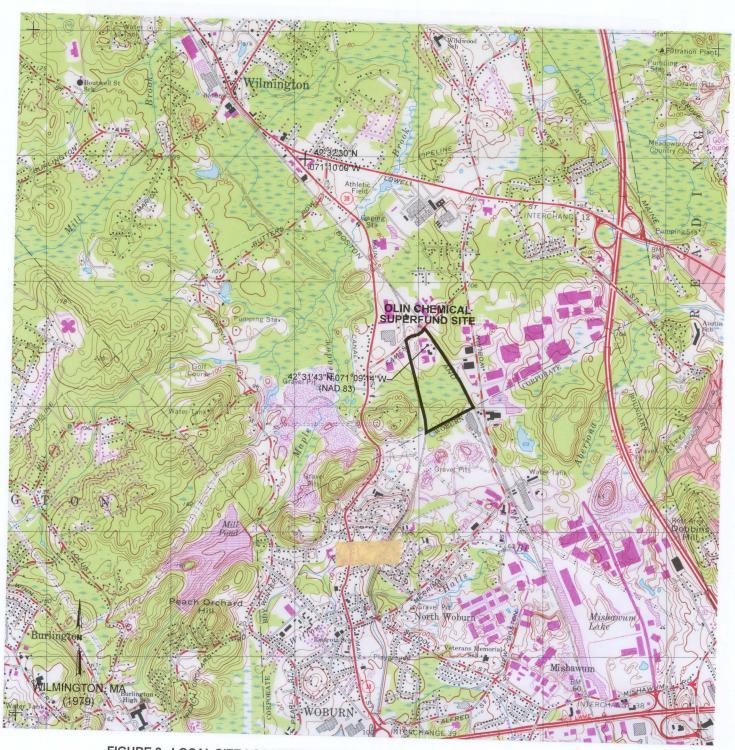


FIGURE 2. LOCAL SITE LOCATION MAP, WILMINGTON, MASSACHUSETTS (USGS, 1979). APPROXIMATE SCALE 1:14, 370.



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XXXXXX FENCE ←-- DRAINAGE ++++ RAIL SPUR --- VEHICLE ACCESS ••••• PIPELINE EXCAVATION/PIT MOUNDED MATERIAL ESCARPMENT ere arbet sacht t BERM/DIKE B CR DB DG DR DT BUILDING CRATES DEBRIS DISTURBED GROUND DRUMS DARK-TONED F FL GS FOUNDATION FILL FILL
GROUND SCAR
HORIZONTAL TANK
IMPOUNDMENT
LANDFILL HT IM LF LG LAGOON LIGHT-TONED LT M MM MATERIAL MOUNDED MATERIAL OS OPEN STORAGE AREA
REVEG REVEGETATED RAILROAD SUPPORT BUILDING R/R SB SL STANDING LIQUID STAIN SOLID WASTE TRENCH SW TR VEH VEHICLE(S)

VERTICAL TANK
COLLATERAL DATA

- SITE BOUNDARY



FIGURE 3. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, OCTOBER 12, 1952. APPROXIMATE SCALE 1:2,880.



FIGURE 3. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, OCTOBER 12, 1952. APPROXIMATE SCALE 1:2,880.

XXXXXX FENCE ←-- DRAINAGE ++++ RAIL SPUR --- VEHICLE ACCESS •••••• PIPELINE EXCAVATION/PIT MOUNDED MATERIAL ESCARPMENT tit ilditinili i BERM/DIKE B CR DB BUILDING CRATES DEBRIS DISTURBED GROUND DRUMS DARK-TONED DG DR DT F GS HT IM LF LG LT FOUNDATION FILL GROUND SCAR HORIZONTAL TANK IMPOUNDMENT LANDFILL LAGOON LIGHT-TONED M MM MATERIAL MOUNDED MATERIAL OPEN STORAGE AREA OS REVEG REVEGETATED R/R SB SL ST RAILROAD SUPPORT BUILDING STANDING LIQUID STAIN SW SOLID WASTE TRENCH

VEHICLE(S) VERTICAL TANK

COLLATERAL DATA

VEH VT SITE BOUNDARY



FIGURE 4. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, MAY 5, 1960. APPROXIMATE SCALE 1:2,880.



FIGURE 4. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, MAY 5, 1960. APPROXIMATE SCALE 1:2,880.



FIGURE 5. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, MAY 12, 1965. APPROXIMATE SCALE 1:2,880.



FIGURE 5. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, MAY 12, 1965. APPROXIMATE SCALE 1:2,880.



FIGURE 6. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, JUNE 6, 1971. APPROXIMATE SCALE 1:2,880.



FIGURE 6. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, JUNE 6, 1971. APPROXIMATE SCALE 1:2,880.



FIGURE 7. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, APRIL 23, 1978. APPROXIMATE SCALE 1:2,880.



FIGURE 7. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, APRIL 23, 1978. APPROXIMATE SCALE 1:2,880.

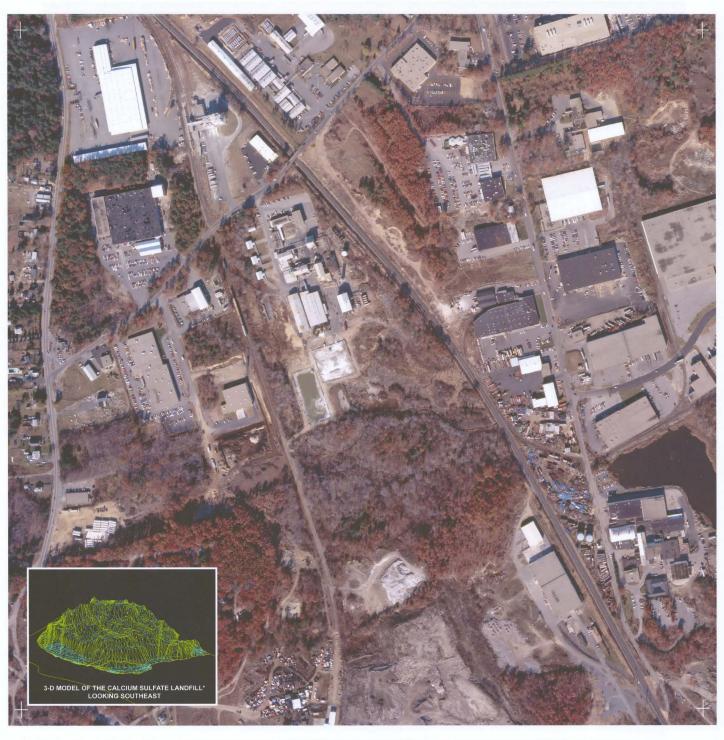


FIGURE 8. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, NOVEMBER 6, 1980. APPROXIMATE SCALE 1:2,880.

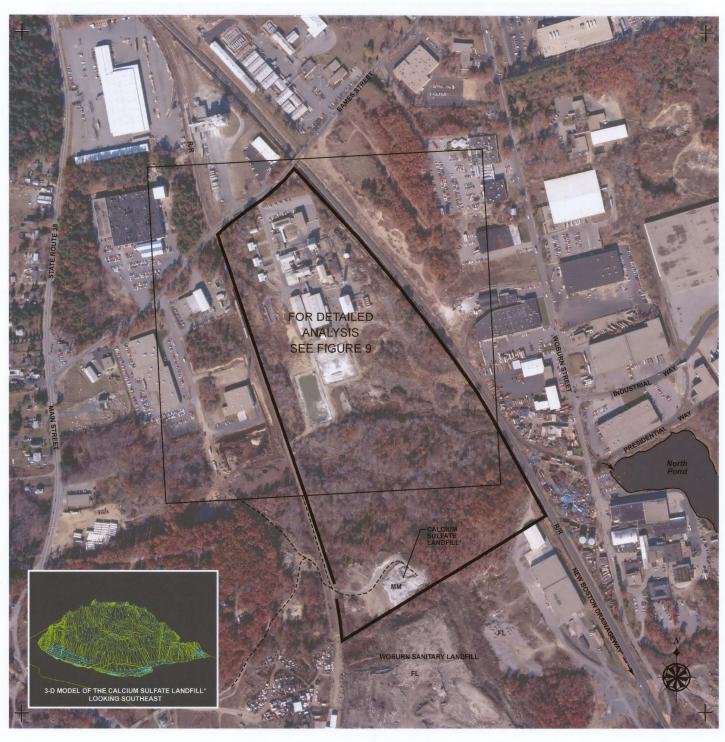


FIGURE 8. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, NOVEMBER 6, 1980. APPROXIMATE SCALE 1:2,880.



FIGURE 9. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, NOVEMBER 6, 1980. APPROXIMATE SCALE 1:1,400.



FIGURE 9. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, NOVEMBER 6, 1980. APPROXIMATE SCALE 1:1,400.



FIGURE 10. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, AUGUST 22, 1984. APPROXIMATE SCALE 1:3,000.



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FIGURE 10. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, AUGUST 22, 1984. APPROXIMATE SCALE 1:3,000.

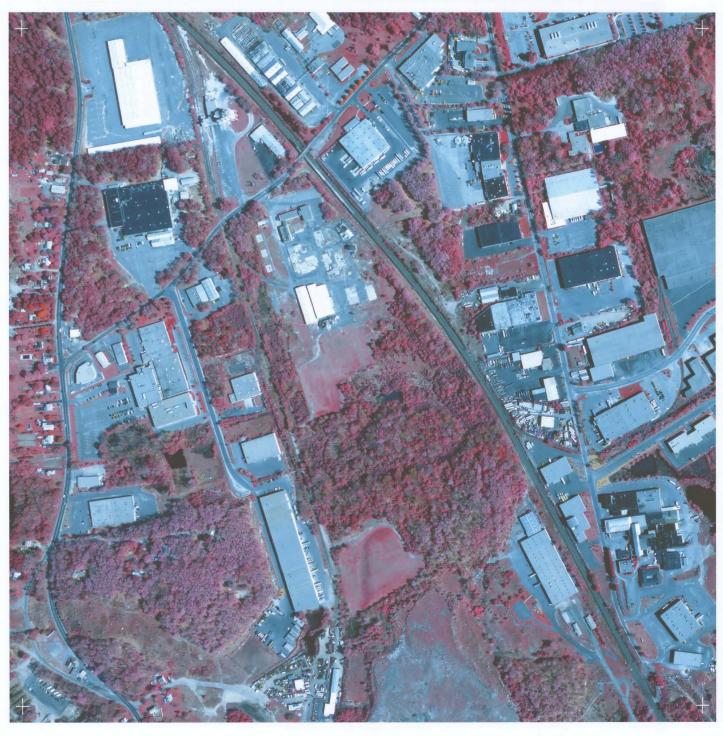


FIGURE 11. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, MAY 16, 1991. APPROXIMATE SCALE 1:3,000.



FIGURE 11. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, MAY 16, 1991. APPROXIMATE SCALE 1:3,000.

SITE BOUNDARY XXXXXX FENCE ←-- DRAINAGE

THE RAIL SPUR

--- VEHICLE ACCESS

••••• PIPELINE

EXCAVATION/PIT



MOUNDED MATERIAL ESCARPMENT

BERM/DIKE BUILDING

B CR CRATES DEBRIS DISTURBED GROUND

DB DG DR DT DRUMS DARK-TONED

F FL FOUNDATION FILL

GROUND SCAR HORIZONTAL TANK IMPOUNDMENT LANDFILL GS HT IM LF

LG LT LAGOON LIGHT-TONED

M MM MATERIAL MOUNDED MATERIAL os OPEN STORAGE AREA

REVEG REVEGETATED R/R RAILROAD SB SUPPORT BUILDING

STANDING LIQUID ST

STAIN SOLID WASTE TRENCH SW TR VEHICLE(S)

VERTICAL TANK
COLLATERAL DATA VT

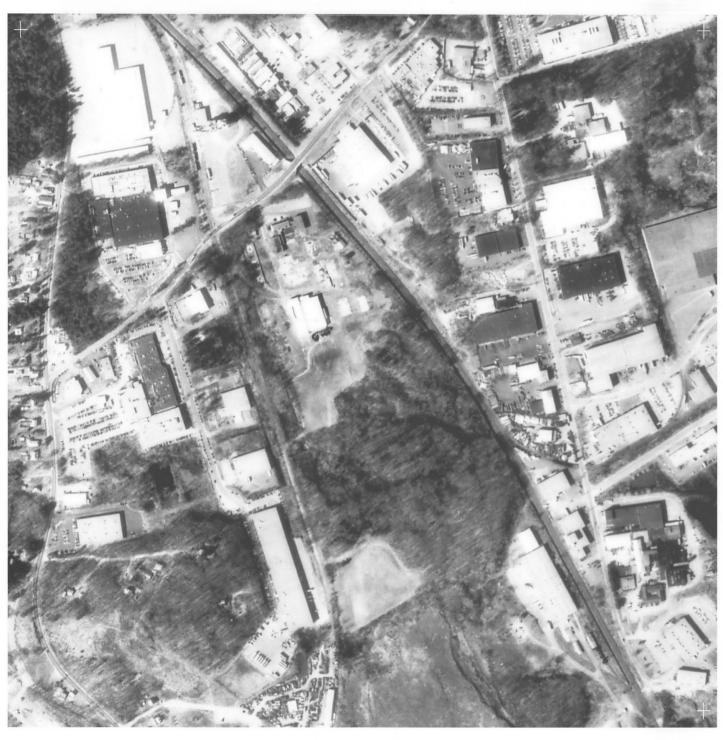


FIGURE 12. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, MARCH 29, 1995. APPROXIMATE SCALE 1:2,880.

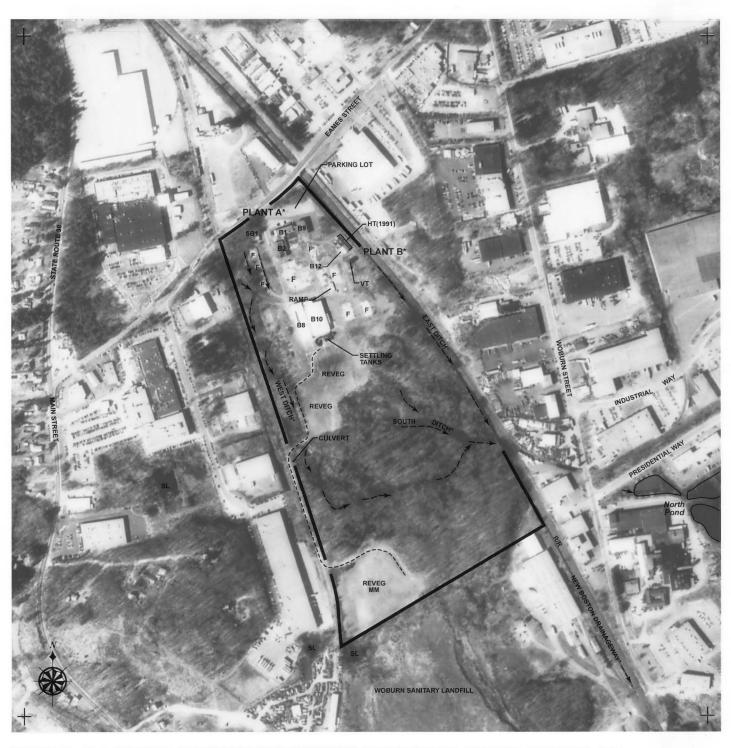


FIGURE 12. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, MARCH 29, 1995. APPROXIMATE SCALE 1:2,880.

- SITE BOUNDARY XXXXXX FENCE ←-- DRAINAGE ++++ RAIL SPUR --- VEHICLE ACCESS .... PIPELINE 0 EXCAVATION/PIT MOUNDED MATERIAL ESCARPMENT remainmet. BERM/DIKE B CR DB DG DR DT F FL GS HT IM LF BUILDING CRATES DEBRIS DISTURBED GROUND DRUMS DARK-TONED FOUNDATION FILL GROUND SCAR HORIZONTAL TANK IMPOUNDMENT LANDFILL LANDFILL
LAGOON
LIGHT-TONED
MATERIAL
MOUNDED MATERIAL LG LT M OS OPEN STORAGE AREA
REVEG REVEGETATED
R/R RAILROAD SB SL ST SUPPORT BUILDING STANDING LIQUID STAIN SOLID WASTE TRENCH VEHICLE(S) VEH VERTICAL TANK COLLATERAL DATA



FIGURE 13. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:2,880.



FIGURE 13. OLIN CHEMICAL SUPERFUND SITE, HISTORICAL PHOTOGRAPHIC ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:2,880.

#### URBAN

- 11 Residential
  12 Commercial and Services
  13 Industrial
  14 Utilities
  17 Other Urban

#### AGRICULTURAL LAND

21 Cropland and Pasture

FOREST LAND

43 Mixed Forest Land

WATER

52 Lakes

WETLAND

- 61 Forested Wetland 62 Non-Forested Wetland

#### BARREN LAND

- 75 Strip Mines, Quarries, and Gravel Pits76 Transitional

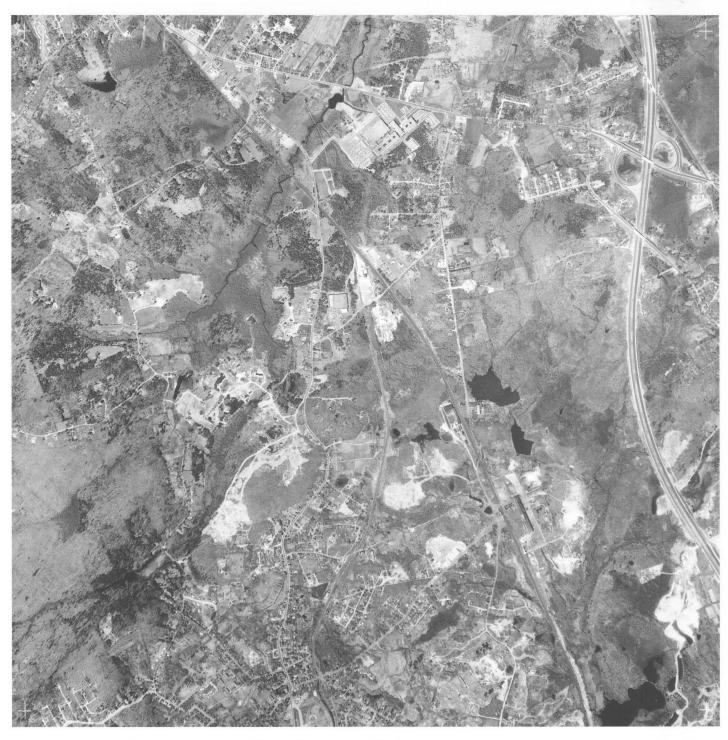


FIGURE 14. OLIN CHEMICAL SUPERFUND SITE, LAND USE/LAND COVER ANALYSIS, MAY 5, 1960. APPROXIMATE SCALE 1:10,000.



FIGURE 14. OLIN CHEMICAL SUPERFUND SITE, LAND USE/LAND COVER ANALYSIS, MAY 5, 1960. APPROXIMATE SCALE 1:10,000.

## LEGEND

## URBAN

- 11 Residential 12 Commercial and Services 13 Industrial 14 Utilities 17 Other Urban

## AGRICULTURAL LAND

21 Cropland and Pasture

FOREST LAND

43 Mixed Forest Land

WATER

52 Lakes

WETLAND

61 Forested Wetland 62 Non-Forested Wetland

BARREN LAND

75 Strip Mines, Quarries, and Gravel Pits76 Transitional



FIGURE 15. OLIN CHEMICAL SUPERFUND SITE, LAND USE/LAND COVER ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:10,000.



FIGURE 15. OLIN CHEMICAL SUPERFUND SITE, LAND USE/LAND COVER ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:10,000.

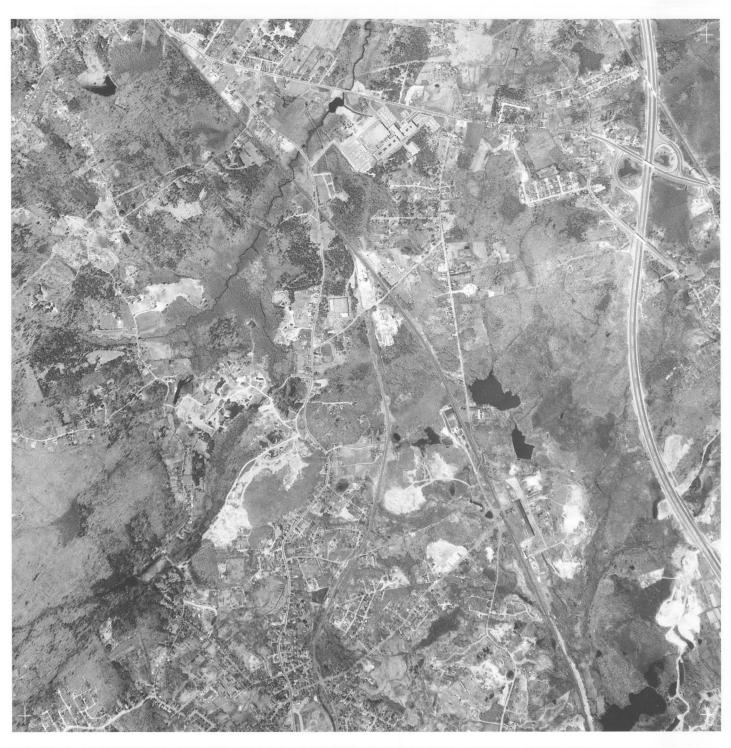


FIGURE 16. OLIN CHEMICAL SUPERFUND SITE, SITE DISCOVERY INVENTORY ANALYSIS, MAY 5, 1960. APPROXIMATE SCALE 1:10,000.

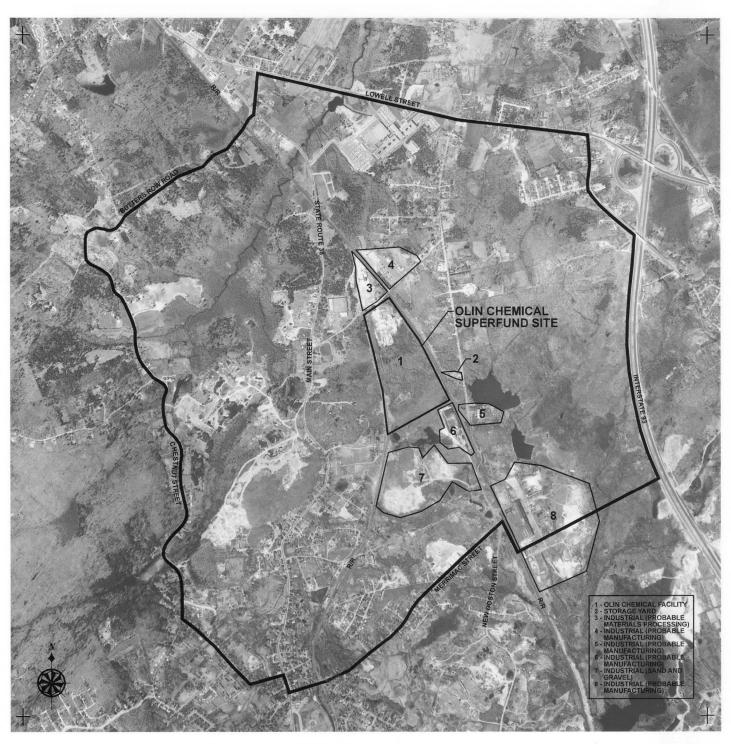


FIGURE 16. OLIN CHEMICAL SUPERFUND SITE, SITE DISCOVERY INVENTORY ANALYSIS, MAY 5, 1960. APPROXIMATE SCALE 1:10,000.



FIGURE 17. OLIN CHEMICAL SUPERFUND SITE, SITE DISCOVERY INVENTORY ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:10,000.



FIGURE 17. OLIN CHEMICAL SUPERFUND SITE, SITE DISCOVERY INVENTORY ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:10,000.

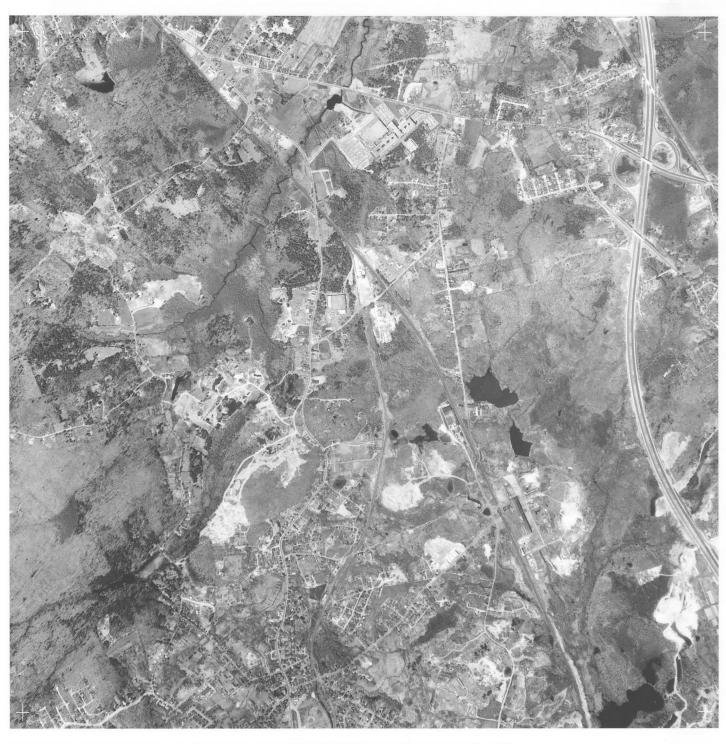


FIGURE 18. OLIN CHEMICAL SUPERFUND SITE, WETLANDS/DRAINAGE ANALYSIS, MAY 5, 1960. APPROXIMATE SCALE 1:10,000.

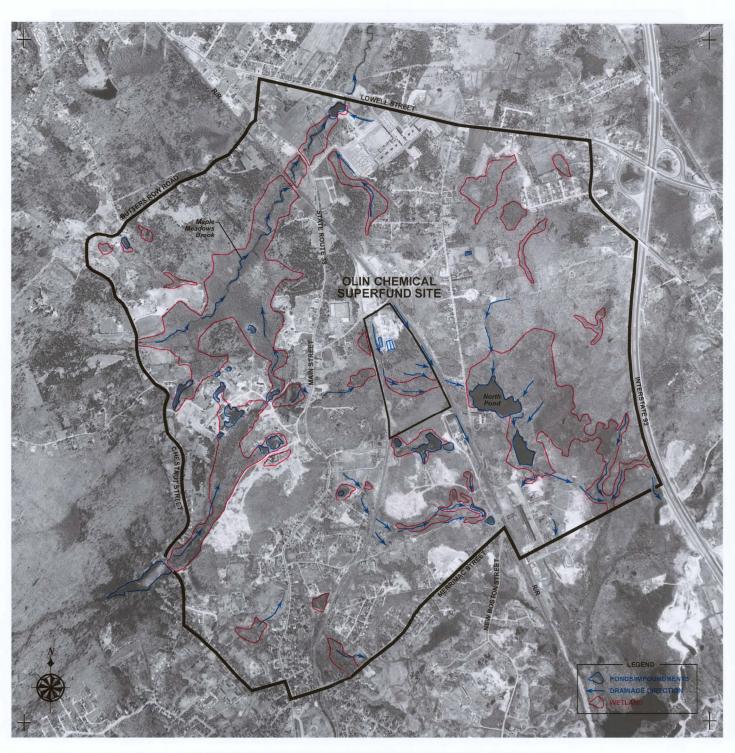


FIGURE 18. OLIN CHEMICAL SUPERFUND SITE, WETLANDS/DRAINAGE ANALYSIS, MAY 5, 1960. APPROXIMATE SCALE 1:10,000.



FIGURE 19. OLIN CHEMICAL SUPERFUND SITE, WETLANDS/DRAINAGE ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:10,000.

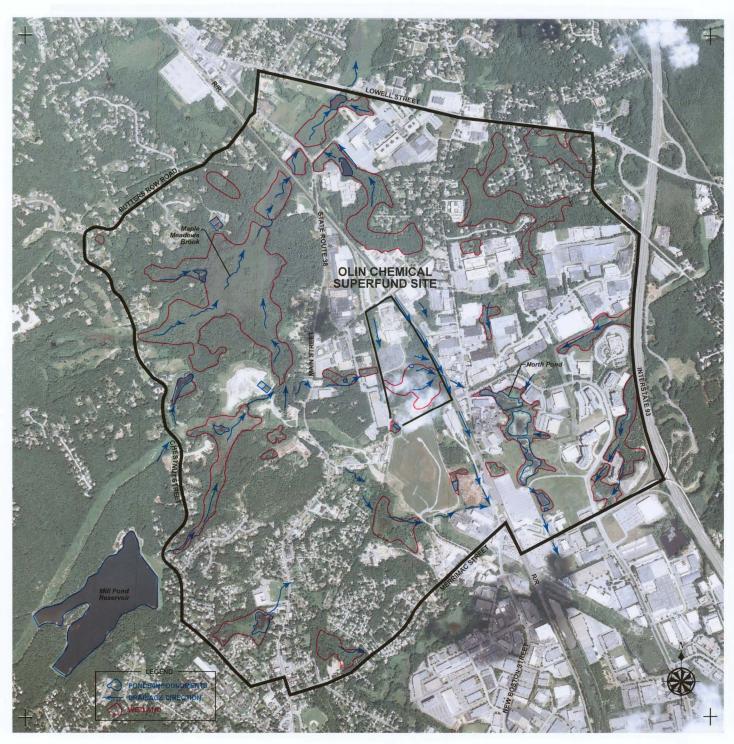


FIGURE 19. OLIN CHEMICAL SUPERFUND SITE, WETLANDS/DRAINAGE ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:10,000.



FIGURE 20. OLIN CHEMICAL SUPERFUND SITE, FRACTURE TRACE ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:10,000.

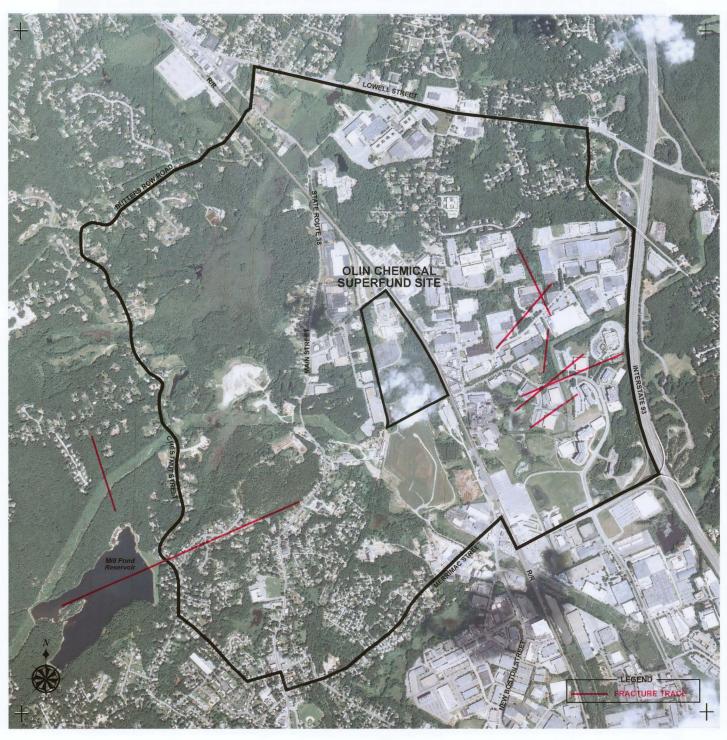


FIGURE 20. OLIN CHEMICAL SUPERFUND SITE, FRACTURE TRACE ANALYSIS, JULY 4, 2004. APPROXIMATE SCALE 1:10,000.